

(Modified) PTO SB.08A-B (10-96)  
Approved for use through 10/31/99 OMB 0651-0031

Substitute for form 1449A-B, PTO

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known

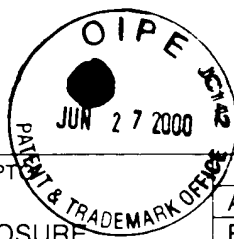
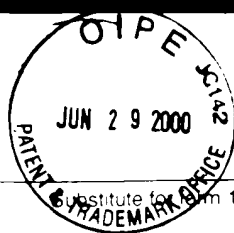
Application Number	09/539,486
Filing Date	March 30, 2000
First Named Inventor	Sergey A. Selifonov
Group Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	02-028940US

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, lines, Where Relevant Passages or Relevant Figures Appeal
		Number	Kind Code (Known)			
SA	AA	5,512,463	435/912	Stemmer	04-30-1996	
SA	AB	5,514,588	435/762	Varadaraj	05-07-1996	
SA	AC	5,605,793	435/6	Stemmer	02-25-1997	
SA	AD	5,763,239	435/6	Short et al.	06-09-1998	
SA	AE	5,789,228	435/241	Lam et al.	08-04-1998	
SA	AF	5,811,238	435/6	Stemmer et al.	09-22-1998	
SA	AG	5,814,473	435/15	Warren et al.	09-29-1998	
SA	AH	5,824,469	435/6	Horwitz et al.	10-20-1998	
SA	AI	5,830,696	435/651	Short	11-03-1998	
SA	AJ	5,830,721	435/459	Stemmer et al.	11-03-1998	
SA	AK	5,834,252	435/911	Stemmer et al.	11-10-1998	
SA	AL	5,837,458	435/6	Minushull et al.	11-17-1998	
SA	AM	5,866,363	435/651	Piecznik	02-02-1999	
SA	AN	5,876,997	435/156	Kretz	03-02-1999	
SA	AO	5,925,749	435/151	Mathur, et al.	07-20-1999	
SA	AP	5,928,905	435/411	Stemmer, et al.	07-27-1999	
SA	AQ	5,939,250	435/4	Short, Jay M.	08-17-1999	
SA	AR	5,939,300	435/152	Robertson, et al.	08-17-1999	
SA	AS	5,942,430	435/157	Robertson, et al.	08-24-1999	
SA	AT	5,948,666	435/154	Callen, et al.	09-07-1999	
SA	AU	5,958,672	435/4	Short, Jay M.	09-28-1999	
SA	AV	5,958,751	435/258	Murphy, et al.	09-28-1999	
SA	AW	5,962,258	435/651	Mathur, et al.	10-05-1999	
SA	AX	5,962,283	435/158	Warren et al.	10-05-1999	
SA	AY	5,965,408	435/153	Short, Jay M.	10-12-1999	
SA	AZ	5,985,646	435/153	Murphy, et al.	11-16-1999	
SA	BA	6,001,574	435/6	Short et al.	12-14-1999	

Examiner Signature	<i>[Signature]</i>	Date Considered	05/01/01
--------------------	--------------------	-----------------	----------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



(Modified) PTO/SB 08A-B (10-96)  
Approved for use through 10/31/99. OMB 0651-0031

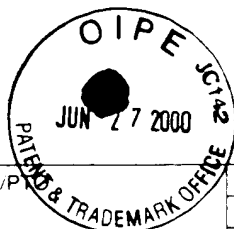
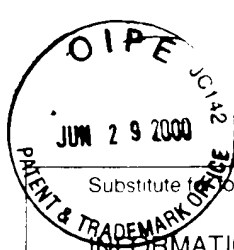
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)	Complete if Known	
	Application Number	09/539,486
	Filing Date	March 30, 2000
	First Named Inventor	Sergey A. Selifonov
	Group Art Unit	Unassigned
	Examiner Name	Unassigned
Attorney Docket Number		02-028940US

BB	6,004,788	435/153	Short	12-21-1999	
BC	6,030,779	435/16	Short	02-29-2000	
BD	6,054,267	435/16	Short	04-25-2000	

FOREIGN PATENT DOCUMENTS								
Examiner Initials	Cite No	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office	Number	Kind Code (if known)				
BB	BE	WO	97/07205		Novo Nordisk A/S	02-27-1997		
BC	BF	WO	97/20078		Affymax Technologies	06-05-1997		
BD	BG	WO	97/25410		Novo Nordisk A/S	07-17-1997		
BE	BH	WO	97/35957		Maxygen, Inc.	10-02-1997		
BF	BI	WO	97/35966		Maxygen, Inc.	10-02-1997		
BG	BJ	WO	97/44361		Recombinant Biocatalysis Inc.	11-27-1997		
BH	BK	WO	97/48416		Recombinant Biocatalysis, Inc.	12-24-1997		
BI	BL	WO	97/48717		Recombinant Biocatalysis Inc	12-24-1997		
BJ	BM	WO	97/48794		Recombinant Biocatalysis Inc	12-24-1997		
BK	BN	WO	98/00526		Recombinant Biocatalysis Inc	01-08-1998		
BL	BO	WO	98/01581		Recombinant Biocatalysis Inc	01-15-1998		
BM	BP	WO	98/13485		Maxygen, Inc	04-02-1998		
BN	BQ	WO	98/13487		Maxygen, Inc.	04-02-1998		
BO	BR	WO	98/24799		Diversa Corp.	06-11-1998		
BP	BS	WO	98/27230		Maxygen, Inc.	06-25-1998		
BQ	BT	WO	98/28416		Novo Nordisk A/S	07-02-1998		
BR	BU	WO	98/31837		Maxygen, Inc.	07-23-1998		
BS	BV	WO	98/36080		Maxygen, Inc.	08-20-1998		

Examiner Signature	<i>S. Selifonov</i>	Date Considered	6/5/01
--------------------	---------------------	-----------------	--------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



(Modified) PTO/SB 08A-B (10-96)  
Approved for use through 10/31/99. OMB 0651-0031

Substitute Form 1449A-B/P

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(use as many sheets as necessary)

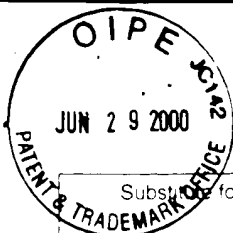
Complete if Known

Application Number	09/539,486
Filing Date	March 30, 2000
First Named Inventor	Sergey A. Selifonov
Group Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	02-028940US

✓	BW	WO	98/41622		Novo Nordisk A/S	09-24-1998		
✓	BX	WO	98/41623		Novo Nordisk A/S	09-24-1998		
✓	BY	WO	98/41653		Novo Nordisk A/S	09-24-1998		
✓	BZ	WO	98/42832		California Institute of Technology	10-01-1998		
✓	CA	WO	98/48034		Diversa Corp.	10-29-1998		
✓	CB	WO	98/58085		Diversa Corp.	12-23-1998		
✓	CC	WO	99/07837		Diversa Corp.	02-19-1999		
✓	CD	WO	99/08539		Diversa Corp.	02-25-1999		
✓	CE	WO	99/10472		Diversa Corp.	03-04-1999		
✓	CF	WO	99/10539		Diversa Corp.	03-04-1999		
✓	CG	WO	99/19518		Diversa Corp.	04-22-1999		
✓	CH	EP	0911396A2		Maxygen, Inc.	04-28-1999		
✓	CI	WO	99/21979		Maxygen, Inc.	05-06-1999		
✓	CJ	EP	0911396A3		Maxygen, Inc.	05-06-1999		
✓	CK	WO	99/23107		Maxygen, Inc.	05-14-1999		
✓	CL	WO	99/23236		Diversa Corp.	05-14-1999		
✓	CM	EP	0934999A1		Maxygen, Inc.	08-11-1999		
✓	CN	WO	99/41368		Maxygen, Inc.	08-19-1999		
✓	CO	WO	99/41369		Maxygen, Inc.	08-19-1999		
✓	CP	WO	99/41383		Maxygen, Inc.	08-19-1999		
✓	CQ	WO	99/41402		Maxygen, Inc.	08-19-1999		
✓	CR	WO	99/45154		Diversa Corp.	09-10-1999		
✓	CS	WO	99/57128		Maxygen, Inc.	11-11-1999		
✓	CT	WO	99/65927		Maxygen, Inc.	12-23-1999		

Examiner Signature	<i>Selifonov</i>	Date Considered	03/01/01
--------------------	------------------	-----------------	----------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Substitute for form 1449A-B/PTO

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known

Application Number	09/539,486
Filing Date	March 30, 2000
First Named Inventor	Sergey A. Selifonov
Group Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	02-028940US

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T
S.C.	CU	STEMMER et al., Single-step assembly of a gene and entire plasmid for large numbers of oligodeoxyribonucleotides <i>Gene</i> 164 (1995) 49-53	

Examiner Signature	<i>[Signature]</i>	Date Considered	6/24/01
--------------------	--------------------	-----------------	---------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute for form 1449A-B PTO

Complete if Known

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

Application Number **09/416,375**  
 Filing Date **October 12, 1999**  
 First Named Inventor **Sergey A. Selifonov**  
 Group Art Unit **Unassigned**  
 Examiner Name **Unassigned**  
 Attorney Docket Number **02-028920US**

Use as many sheets as necessary

## U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T
		Number	Kind Code (if known)				

## FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T
		Office	Number	Kind Code (if known)				

## OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume/issue number(s), publisher, city and/or country where published	T
AA	AA	Cramer & Stemmer "1020-Fold aptamer library amplification without gel purification" <u>Nucleic Acid Research</u> (1993) Vol. 21 No. 18 p. 4110	
AB	AB	Feng & Doolittle, <u>J. Mol. Evol.</u> 35:351-360 (1987)	
AC	AC	Higgins & Sharp, <u>CABIOS</u> 5:151-153 (1989).	
AD	AD	Sun (1999) "Modeling DNA Shuffling" <u>Journal of Computational Biology</u> 6(1):77-90	

Examiner Signature	<i>[Signature]</i>	Date Considered	<i>10/12/99</i>
-----------------------	--------------------	--------------------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant

Substitute for form 1449A-B PTO

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known

Application Number **09/539,486**  
Filing Date **March 30, 2000**  
First Named Inventor **Sergey A. Selifonov**  
Group Art Unit **1631**  
Examiner Name **S. Zhou**  
Attorney Docket Number **02-028940US**

RECEIVED

JAN 1 2001

TECH CENTER 1600/2900

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code (if known)			
ST	AA	09/408,392		Crameri et al.	09-28-1999	
SL	AB	09/408,393		Welch et al.	09-28-1999	
ST	AC	09/416,375		Selifonov, et al	10-12-1999	
Q	AD	09/484,850		Crameri, et al.	01-18-2000	
A	AE	09/618,579		Selifonov et al.	07-18-2000	
Q	AF	09/626,588		Crameri et al.	07-27-2000	
A	AG	09/626,930		Crameri et al.	07-27-2000	
Q	AH	09/626,595		Crameri et al.	07-27-2000	
Q	AI	09/626,929		Crameri et al.	07-27-2000	
Q	AJ	09/626,601		Crameri et al.	07-27-2000	
Q	AK	09/694,863		Crameri et al.	10-23-2000	
Q	AL	09/694,864		Crameri et al.	10-23-2000	
Q	AM	09/721,601		Crameri et al.	11-21-2000	
Q	AN	09/721,396		Selifonov et al.	11-21-2000	
Q	AO	09/721,395		Selifonov et al.	11-21-2000	
Q	AP	09/721,598		Selifonov et al.	11-21-2000	
Q	AQ	09/718,765		Selifonov et al.	11-21-2000	
Q	AR	09/718,849		Selifonov et al.	11-21-2000	
Q	AS	09/718,682		Selifonov et al.	11-21-2000	
Q	AT	09/721,365		Selifonov et al.	11-21-2000	

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office	Number	Kind Code (if known)				
ST	AU	WO	00/42560		Maxygen Inc.	07-20-2000		
Q	AV	WO	00/42561		Maxygen, Inc.	07-20-2000		

Examiner  
Signature

*S. Zhou*

Date  
Considered

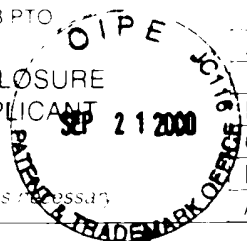
03/10/01

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute for form 1449A-B PTO

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

Use as many sheets as necessary



Application Number **09/416,375**  
 Filing Date **October 12, 1999**  
 First Named Inventor **Sergey A. Selifonov**  
 Group Art Unit **Unassigned**  
 Examiner Name **Unassigned**  
 Attorney Docket Number **02-028920US**

Complete if Known

## U.S. PATENT DOCUMENTS

Examiner	Cite	U.S. Patent Document	Name of Patentee or Applicant	Date of Publication	Pages, Columns, Lines
Initials	No.	Number	Kind Code	Filed Document	Where Relevant Passages or Relevant Figures Appear

## FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
		Office	Number	Kind Code if known			
GA	AA	WO	95/15972		Thomas Jefferson University	06-15-1995	
GA	AB	WO	98/49350		Regents of the University of Minnesota	11-05-1998	

## OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS); title of the article (when appropriate); title of the item (book, magazine, journal, serial, symposium, catalog, etc.); date; page(s); volume/issue number(s); publisher; city and/or country where published
GA	AC	Giver and Arnold "Combinatorial protein design by in vitro recombination" <u>Current Opinion in Chemical Biology</u> (1998) 2:335-338
GA	AD	Sun, Fengzhu, "Modeling DNA Shuffling" <u>Proceedings of the Second Annual International Conference on Computational Molecular Biology</u> (1998) 251-257
GA	AE	Zhao et al., "Molecular evolution by staggered extension process (StEP) in vitro recombination" <u>Nature Biotechnology</u> Vol. 16 (1998) pp. 258-261

Examiner Signature <i>St. Thore</i>	Date Considered <i>10/16/01</i>
-------------------------------------	---------------------------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

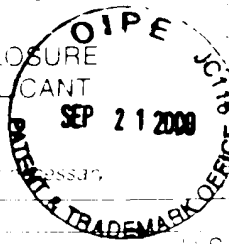
# COPY FROM PARENT

Supplemental Form 1449A-B PTO

Complete if Known

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Use as many sheets as necessary



Application Number **09/416,375**  
 Filing Date **October 12, 1999**  
 First Named Inventor **Sergey A. Selifonov**  
 Group Art Unit **Unassigned**  
 Examiner Name **Unassigned**  
 Attorney Docket Number **02-028920US**

### U.S. PATENT DOCUMENTS

AA 5,413,703 03/16/99 Yoshida et al. 02-18-1997

### FOREIGN PATENT DOCUMENTS

AB WO 95 22625 Affymax Technologies, N.V. 08-24-1995  
 AC WO 96/33207 Glaxo Group Limited 10-24-1996

### OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Date	Include name of the author in CAPITAL LETTERS; title of the article, when appropriate; title of the item, book, magazine, journal, serial, symposium, catalog, etc.; date; page(s); volume/issue number(s); publisher; city and/or country where published.
AD		Altschul et al. <i>J. Mol. Biol.</i> 215:403-410 (1990)
AE		Boehnke et al. (1991) "Statistical methods for multipoint radiation hybrid mapping" <i>Am. J. Hum. Genet.</i> 49:1174-1188
AF		Brunner and Bujard (1987) <i>EMBO J.</i> 6:3139-3144
AG		Chang et al. (1999) "Evolution of a cytokine using DNA family shuffling" <i>Nature Biotechnology</i> 17:793-797
AH		Christians et al. (1999) "Directed evolution of thymidine kinase for AZT phosphorylation using DNA family shuffling" <i>Nature Biotechnology</i> 17:259-264
AI		Crameri and Stemmer (1995) "Combinatorial multiple cassette mutagenesis creates all the permutations of mutant and wildtype cassettes" <i>BioTechniques</i> 18:194-195
AJ		Crameri et al. (1996) "Construction and evolution of antibody-phage libraries by DNA shuffling" <i>Nature Medicine</i> 2:100-103
AK		Crameri et al. (1996) "Improved green fluorescent protein by molecular evolution using DNA shuffling" <i>Nature Biotechnology</i> 14:315-319
AL		Crameri et al. (1997) "Molecular evolution of an arsenate detoxification pathway by DNA shuffling." <i>Nature Biotechnology</i> 15:436-438.
AM		Crameri et al. (1998) "DNA shuffling of a family of genes from diverse species accelerates directed evolution" <i>Nature</i> 391:288-291
AN		Gates et al. (1996) "Affinity selective isolation of ligands from peptide libraries through display on a lac repressor 'headpiece dimer'" <i>Journal of Molecular Biology</i> 255:373-386

Examiner  
Signature

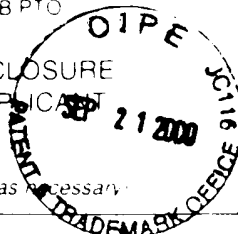
Date  
Considered

\*EXAMINER: Initial if reference considered; whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

use as many sheets as necessary



Complete if Known

Application Number **09/416,375**  
Filing Date **October 12, 1999**  
First Named Inventor **Sergey A. Selifonov**  
Group Art Unit **Unassigned**  
Examiner Name **Unassigned**  
Attorney Docket Number **02-028920US**

AO	Irvine et al. (1991) "SELEXION: systematic evolution of ligands by exponential enrichment with integrated optimization by non-linear analysis" <u>J. Mol. Biol.</u> 222:739-761
AP	Jonsson et al. (1993) <u>Nucleic Acids Res.</u> 21:733-739
AQ	Kelly et al. (1994) "A test of the Markovian model of DNA evolution" <u>Biometrics</u> 50(3):653-64
AR	Knaus and Bujard (1988) <u>EMBO J.</u> 7:2919-2923
AS	Lander and Waterman (1988) Genomic mapping by fingerprinting random clones: a mathematical analysis" <u>Genomics</u> 2:231-239
AT	Lanzer and Bujard (1988) <u>Proc. Natl. Acad. Sci.</u> 85:8973-8977
AU	Minshull and Stemmer (1999) "Protein evolution by molecular breeding" <u>Current Opinion in Chemical Biology</u> 3:284-290
AV	Ness et al. (1999) "DNA Shuffling of subgenomic sequences of subtilisin" <u>Nature Biotechnology</u> 17:893-896
AW	Patten et al. (1997) "Applications of DNA Shuffling to Pharmaceuticals and Vaccines" <u>Current Opinion in Biotechnology</u> 8:724-733
AX	Stemmer (1994) "Rapid evolution of a protein in vitro by DNA shuffling" <u>Nature</u> 370:389-391
AY	Stemmer (1995) "Searching Sequence Space" <u>Bio/Technology</u> 13:549-553
AZ	Stemmer (1995) "The Evolution of Molecular Computation" <u>Science</u> 270: 1510
BA	Stemmer (1996) "Sexual PCR and Assembly PCR" In: <u>The Encyclopedia of Molecular Biology</u> , VCH Publishers, New York, pp.447-457
BB	Stemmer, et al., (1999) "Molecular breeding of viruses for targeting and other clinical properties Tumor Targeting" 4:1-4
BC	Sun and Waterman (1996) "A mathematical analysis of <i>in vitro</i> molecular selection-amplification" <u>J. Mol. Biol.</u> 258:650-660
BD	Zhang et al. (1997) "Directed evolution of an effective fucosidase from a galactosidase by DNA shuffling and screening" <u>Proceedings of the National Academy of Sciences, U.S.A.</u> 94:4504-4509

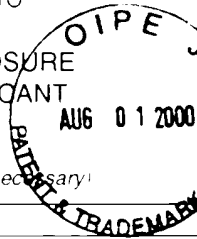
Examiner  
Signature



Date  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute for form 1449A-B PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (use as many sheets as necessary)		Application Number	09/539,486
		Filing Date	March 30, 2000
		First Named Inventor	Sergey A. Selifonov
		Group Art Unit	Unassigned
		Examiner Name	Unassigned
		Attorney Docket Number	02-028940US



U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code (if known)			

FOREIGN PATENT DOCUMENTS								
Examiner Initials	Cite No	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office	Number	Kind Code (if known)				

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published		
A	AA	DAHIYAT et al., "Automated design of the surface positions of protein helices" <i>Protein Science</i> (1997) 6:1333-1337		
A	AB	DAHIYAT and MAYO "De Novo Protein Design: Fully Automated Sequence Selection" <i>Science</i> (1997) vol. 278 pp. 82-87		
A	AC	DAHIYAT et al., "De Novo Protein Design: Towards Fully Automated Sequence Selection" <i>J. Mol. Biol.</i> (1997) 273:789-796		
A	AD	DAHIYAT and MAYO "Probing the role of packing specificity in protein design" <i>Proc. Natl. Acad. Sci. U.S.A.</i> vol. 94 pp. 10172-10177		
A	AE	GORDON and MAYO "Branch-and-Terminate: a combinatorial optimization algorithm for protein design" <i>Structure</i> (1999) 7:1089-1098		
A	AF	GORDON et al., "Energy functions for protein design" <i>Current Opinion in Structural Biology</i> (1999) 9:509-513		
A	AG	GORDON and MAYO "Radical Performance Enhancements for Combinatorial Optimization Algorithms Based on the Dead-End Elimination Theorem" <i>Journal of Computational Chemistry</i> , vol. 19, no. 13, 1505-1514		
A	AH	HANEY et al., "Structural Basis for Thermostability and Identification of Potential Active Site Residues for Adenylate Kinases From the Archaeal Genus <i>Methanococcus</i> " <i>Proteins</i> (1997) 28:117-130		
A	AI	MALAKAUSKAS and MAYO "Design, structure and stability of a hyperthermophilic protein variant" <i>Nature Structural Biology</i> (1998) vol. 5, no. 6, 470-475		
A	AJ	POLLOCK et al., "Coevolving Protein Residues: Maximum Likelihood Identification and Relationship to Structure" <i>J. Mol. Biol.</i> (1999) 287:187-198		
A	AK	STREET and MAYO "Computational protein design" <i>Structure</i> (1999) 7:R105-R109		

Examiner Signature		Date Considered	8/6/00
-----------------------	--	--------------------	--------

\*EXAMINER. Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute for form 1449A-B PTO	Complete if Known
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application Number <b>09/539,486</b>
(use as many sheets as necessary)	Filing Date <b>March 30, 2000</b>
	First Named Inventor <b>Sergey A. Selifonov</b>
	Group Art Unit <b>Unassigned</b>
	Examiner Name <b>Unassigned</b>
	Attorney Docket Number <b>02-028940US</b>

AL	STREET and MAYO "Intrinsic B-sheet propensities result from van der Waals interactions between side chains and local backbone" <i>Proc. Natl. Acad. Sci. U.S.A.</i> (1999) vol. 96 pp. 9074-9076
AM	STREET and MAYO "Pairwise calculation of protein solvent-accessible surface areas" <i>Folding &amp; Design</i> (1998) 3:253-258
AN	STROP and MAYO "Rubredoxin Variant Folds without Iron" <i>J. American Chem. Soc.</i> (1999) vol. 121 no. 11 pp. 2341-2345
AO	WOLLENBERG and ATCHLEY "Separation of phylogenetic and functional associations in biological sequences by using the parametric bootstrap" <i>PNSA</i> vol. 97, no. 7, pp. 3288-3291

Examiner Signature	<i>[Signature]</i>	Date Considered	<i>3/30/00</i>
--------------------	--------------------	-----------------	----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.